



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Mahajani et al.

Application No.: 10/079472

Filed: 2/19/2002

Title: Gate Dielectric Structures for  
Integrated Circuits and Methods for Making  
and Using Such Gate Dielectric Structures

Attorney Docket No.: MA-068

Group Art Unit: 2814

Examiner: Thao X. Le

DEC 29 2003  
TECHNOLOGY CENTER 2800

RECEIVED

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**AMENDMENT AND RESPONSE**

Dear Sir:

This amendment and response are in reply to the Office Action of September 16, 2003 in  
the above-captioned case.

I hereby certify that this paper is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to MS Non-Fee Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

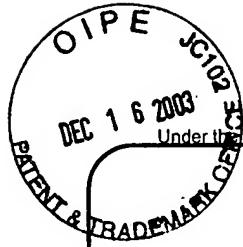
  
Pamela J. Squyres  
Date of Mailing 12/12/03

## **INTRODUCTORY COMMENTS**

Claims 1 and 35 have been cancelled. Claims 3, 6-7, 9, 21-25, 27, and 38-42 have been amended. This response includes the following parts, each starting on a new page: A complete listing of Pending Claims, which shows all claims, including the current amendments; Remarks, which discusses the claim amendments and addresses the rejections of the office action of September 16, 2003; and a Conclusion. Exhibit A, referred to in this response, is attached.

### **Status of Claims:**

This response cancels claims 1 and 35. Claims 3, 5-9, 12-15, 20-34 and 36-42 are pending in the application. Claim 7 is rejected under 35 USC 102(b) as anticipated by Yu et al., US Patent No. 6,184,155. Claims 6-7, 9, 12-15, 20-21, 24, 26, 27, and 30-31 are rejected under 35 USC 102(e) as anticipated by Luoh et al., US Publication No. 2003/0017670. Claims 3, 5, 8, 22-23, 25, 28-29, 32-34 are rejected under 35 USC 103(a) as unpatentable over Luoh et al. Claims 36-38 are rejected under 35 USC 103(a) as unpatentable over Chang et al., US Patent No. 6,599,801 in view of Xing et al., US Publication No. 2003/0124873. Claims 39-42 are rejected under 35 USC 103(a) as unpatentable over Yu et al.



41

PTO/SB/21 (08-03)

2814

Approved for use through 07/31/2006. OMB 0651-0031  
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	10/079472
		Filing Date	February 19, 2002
		First Named Inventor	Maitreyee Mahajani
		Art Unit	2814
		Examiner Name	Thao X. Le
Total Number of Pages in This Submission	26	Attorney Docket Number	MA-068

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please Identify below):  <b>ENCS:</b> <input type="checkbox"/> 1) Exhibit A (5 pgs) <input type="checkbox"/> 2) Postcard

RECEIVED  
DEC 29 2003  
TECHNOLOGY CENTER 2800

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	MATRIX SEMICONDUCTOR, Inc. Pamela J. Squyres, Reg. No. 52,246
Signature	
Date	December 12, 2003

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Pamela J. Squyres, Reg. No. 52,246		
Signature		Date	December 12, 2003

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.